IN THE CLAIMS

Please cancel claims 14-19, 30, 50 and 55-58, amend claims 1, 20, 31, 34, 35, 41 and 46, and add new claims 60-64. This amendment is made without prejudice. (The changes in these claims from their immediate prior version are shown with strikethrough or [[double brackets]] for deleted matter and <u>underlines</u> for added matter. A complete listing of the claims with proper claims identifiers follows.

- 1. (Currently amended) A motor comprising:
 - a) a shaft having a rotational axis;
 - b) a hub attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the hub about the rotational axis of the shaft;
 - d) a stator comprising conductors;
- e) a monolithically formed body that substantially encapsulates the stator conductors, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, hub and bearing with respect to the stator; and mounting features are formed in the body to mount the motor to a device to be powered by the motor; and
- f) an insert substantially encapsulated within the body, wherein the insert provides structural rigidity to the body.
- 2. (Previously presented) The motor of claim 1 wherein the body surrounds the bearing.
- 3. (Previously presented) The motor of claim 1 wherein the bearing comprises an upper bearing and a lower bearing.
- 4. (Previously presented) The motor of claim 3 wherein the body substantially surrounds the upper bearing and the lower bearing.
- 5. (Previously presented) The motor of claim 1 wherein the shaft is fixed relative to the body.
- 6. (Previously presented) The motor of claim 1 wherein the shaft is freely rotatable relative to the body.

- 7. (Previously presented) The motor of claim 1 wherein the mounting features are configured to allow the motor to be mounted to a hard disc drive.
 - 8. (Cancelled)
- 9. (Previously presented) The motor of claim 1 wherein the permanent magnet is concentrically disposed around the stator.
- 10. (Previously presented) The motor of claim 1 wherein the stator concentrically surrounds the permanent magnet.
- 11. (Previously presented) The motor of claim 1 wherein a second magnet is substantially encapsulated within the body.
- 12. (Previously presented) The motor of claim 11 wherein the second magnet is an enhancement magnet.
- 13. (Previously presented) The motor of claim 11 wherein the second magnet is part of a magnetic bearing.

14-19. (Cancelled)

- 20. (Currently amended) A motor comprising:
 - a) a shaft;
 - b) a bearing surrounding the shaft;
 - c) windings acting as conductors; and
- d) a monolithically formed body that substantially encapsulates at least a portion of the windings, wherein a thermoplastic material is injection molded to form the body, the material including aluminum oxide as a filler, the aluminum oxide comprising about 55% of the thermoplastic material.
- 21. (Previously presented) The motor of claim 1 wherein the bearing is fixed to the body.
- 22. (Previously presented) The motor of claim 1 wherein the hub comprises a disc support member and the shaft is fixed to the disc support member.

- 23. (Previously presented) The motor of claim 1 wherein the stator further comprises a core and the conductors induce magnetic fields in the core when current is conducted by the conductors.
- 24. (Previously presented) The motor of claim 23 wherein the core comprises steel laminations.
- 25. (Previously presented) The motor of claim 23 wherein the core has a plurality of poles and the conductors comprise windings around said poles.
- 26. (Previously presented) The motor of claim 1 wherein the bearing comprises ball bearings.
- 27. (Previously presented) The motor of claim 26 wherein the motor comprises a high speed spindle motor and the bearings comprise oversized bearings having an outer diameter of over 13 mm.
- 28. (Previously presented) The motor of claim 1 wherein the bearing is a hydrodynamic bearing.
- 29. (Previously presented) The motor of claim 1 wherein the motor is able to operate at at least 10,000 rpm.
 - 30. (Cancelled)
- 31. (Currently amended) The motor of claim 1 wherein the insert <u>also</u> enhances heat transfer away from the bearing and the stator.
- 32. (Previously presented) The motor of claim 1 wherein a first portion of a magnetic bearing is substantially encapsulated within the body and a second opposing portion of the magnetic bearing is attached to the hub.
- 33. (Previously presented) The motor of claim 32 wherein the body has been machined to provide precise tolerance between the first and second portions of the magnetic bearing.

- 34. (Currently amended) The motor of claim 1 wherein the insert<u>also</u> enhances dampening of motor vibration.
- 35. (Currently amended) The motor of claim 1 wherein the insert <u>also</u> enhances dampening of audible noise.
- 36. (Previously presented) The motor of claim 1 wherein the shaft is fixed to the body and the insert is positioned between the shaft and the bearing.
- 37. (Previously presented) The motor of claim 1 wherein the thermoplastic material includes ceramic particles.
- 38. (Previously presented) The motor of claim 1 wherein the thermoplastic material has a coefficient of linear thermal expansion of less than $2x10^{-5}$ in/in °F throughout the range of 0-250°F.
- 39. (Previously presented) The motor of claim 1 wherein the thermoplastic material has a coefficient of linear thermal expansion of less than 1.5x10⁻⁵ in/in °F throughout the range of 0-250°F.
- 40. (Previously presented) The motor of claim 1 wherein the thermoplastic material has a coefficient of linear thermal expansion of between about 0.8x10⁻⁵ in/in °F and about 1.2x10⁻⁵ in/in °F throughout the range of 0-250°F.
- 41. (Currently amended) The motor of claim 1 wherein the bearing comprises steel, the hub comprising comprises aluminum and the thermoplastic material has a coefficient of linear thermal expansion that is between the coefficient of linear thermal expansion of the steel and the coefficient of linear thermal expansion of the aluminum.
- 42. (Previously presented) The motor of claim 1 wherein the thermoplastic material comprises polyphenyl sulfide.
- 43. (Previously presented) The motor of claim 1 wherein the shaft is fixed to the thermoplastic body by being molded with the stator in the thermoplastic body.

- 44. (Previously presented) The motor of claim 1 wherein the bearing is fixed to the thermoplastic body with a press fit.
- 45. (Previously presented) A high speed spindle motor for a disc drive comprising:
 - a) a shaft having a rotational axis;
- b) a disc support member attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the disc support member about the rotational axis of the shaft;
 - d) a stator; and
- e) a monolithically formed body that substantially encapsulates the stator, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, disc support member and bearing with respect to the stator; and wherein the shaft is fixed to the body and an insert is substantially encapsulated within the body and is positioned between the shaft and the bearing.
- 46. (Currently amended) The motor of claim [[8]] 1 wherein the insert is rigidly fixed to the stator by the body and is connected to the stator only through the thermoplastic material.
- 47. (Previously presented) The motor of claim 46 wherein the shaft is fixed to the insert by being substantially encapsulated by the thermoplastic material.
- 48. (Previously presented) The motor of claim 46 wherein the bearing is fixed to the insert by being substantially encapsulated by the thermoplastic material.
- 49. (Previously presented) The motor of claim 1 herein said mounting features comprise apertures.
 - 50. (Cancelled)
- 51. (Previously presented) The motor of claim 20 wherein the thermoplastic material comprises polyphenyl sulfide.

- 52. (Previously presented) The motor of claim 20 wherein the thermoplastic material comprises nylon.
- 53. (Previously presented) The motor of claim 20 wherein the thermoplastic material comprises polyester.
- 54. (Previously presented) The motor of claim 20 wherein the thermoplastic material comprises a liquid crystal polymer.

55-58. (Cancelled)

- 59. (Previously presented) The motor of claim 1 wherein the shaft is attached to the insert.
 - 60. (New) A motor comprising:
 - a) a shaft having a rotational axis;
 - b) a hub attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the hub about the rotational axis of the shaft;
 - d) a stator comprising conductors;
- e) a monolithically formed body that substantially encapsulates the stator conductors, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, hub and bearing with respect to the stator; and mounting features are formed in the body to mount the motor to a device to be powered by the motor; and
- f) an insert substantially encapsulated within the body wherein the insert enhances heat transfer away from the bearing and the stator.
 - 61. (New) A motor comprising:
 - a) a shaft having a rotational axis;
 - b) a hub attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the hub about the rotational axis of the shaft;
 - d) a stator comprising conductors;

- e) a monolithically formed body that substantially encapsulates the stator conductors, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, hub and bearing with respect to the stator; and mounting features are formed in the body to mount the motor to a device to be powered by the motor; and
- f) an insert substantially encapsulated within the body wherein the insert enhances dampening of motor vibration.

62. (New) A motor comprising:

- a) a shaft having a rotational axis;
- b) a hub attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the hub about the rotational axis of the shaft;
 - d) a stator comprising conductors;
- e) a monolithically formed body that substantially encapsulates the stator conductors, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, hub and bearing with respect to the stator; and mounting features are formed in the body to mount the motor to a device to be powered by the motor; and
- f) an insert substantially encapsulated within the body wherein the insert enhances dampening of audible noise.

63. (New) A motor comprising:

- a) a shaft having a rotational axis;
- b) a hub attached to the shaft and including a permanent magnet;
- c) a bearing allowing rotation of the hub about the rotational axis of the shaft;
 - d) a stator comprising conductors;
- e) a monolithically formed body that substantially encapsulates the stator conductors, wherein a thermoplastic material is injection molded to form the body and the body is configured to align the shaft, hub and bearing with respect to the stator; and mounting features are formed in the body to mount the motor to a device to be powered by the motor; and

- f) an insert substantially encapsulated within the body, wherein the shaft is fixed to the body and the insert is positioned between the shaft and the bearing.
 - 64. (New) A motor comprising:
 - a) a shaft;
 - b) a bearing surrounding the shaft;
 - c) windings acting as conductors; and
- d) a monolithically formed body that substantially encapsulates at least a portion of the windings, wherein a thermoplastic material comprising polyphenyl sulfide is injection molded to form the body, the material including aluminum oxide as a filler.